### **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



U. S. DEPARTMENT of AGRICULTURE \* SOIL CONSERVATION SERVICE

# WATER SUPPLY OUTLOOK FOR MONTANA

FEDERAL STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

JUNE 1.1979



Leaner to

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON D.C.

Holomond In

VAN K HADERLIE STATE CONSERVATIONIST SOIL CONSERVATION SERVICE Bozeman, Montana

Report proported for

PHILLIP E. FARNES, SNOW SURVEY SUPERVISOR DONALD J. HUFFMAN, HYDROLOGIST CINDY L. ONDRAK, STATISTICAL ASSISTANT GLENN J. HERDINA, HYDROLOGIC TECHNICIAN In Congression with

J. A. ASLESON

DIRECTOR

Montana Agricultural Experiment Station

SOIL CONSERVATION SERVICE P.O. Box 98 Bozeman, Montana 59715

#### RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

			1	Utible Storage	
Basin, or Stream	RESERVOIR	Uneble Capiting	Thii Viee	LAST YEAR	A + C+1 9 0
	COL	UMBIA			
Cootemai	Koocanusa	5,694.0	3,551.0	3,206.0	_
lathead	Hungry Horse	3,428.0	2.927.0	2,580.0	2,639.0
	Flathead Lake	1,791.0	1,527.0	1,473.0	1,481.0
	Camas (4)	45.2	29.9	17.2	36.3
	Mission Valley (8)	100.3	98.4	94.8	63.7
lark Fork	Georgetown Lake	31.0	28.7	27.5	25.6
	Lower Willow Creek	4.9	4.8	4.9	
	Nevada Creek	12.6		4.9	4.1
	Noxon Rapids		12.9	200	12.1
litterroot	Painted Rocks	334.6	325.7	266.3	243.9
ircertoot		31.7	33.3	33.0	32.4
	Como	34.9			29.1
	MIS	SOURI			
ieave rhead	Lima	84.0	64.9	70.6	60.2
	Clark Canyon	257.2	187.1	182.7	149.5
Suby	Ruby	38.8	101.1	102.7	37.7
ladison	Hobgen Lake	377.5	250.6	226.1	287.1
	Ennis Lake	41.0	35.1		35.8
allatin	Middle Creek	8.0	7.3	37.1	
lissouri	Canyon Ferry	2.043.0		7.2	7.0
11330411	Hauser & Helena	*	1733.0	1,704.0	1,652.0
		61.9	62.5	63.0	57.9
	Lake Helena	10.4	10.7	10.9	9.1
	Holter Lake	81.9	76.3	74.7	73.7
		18,910.0	18,170.0	17,640.0	13,920.0
with	Smlth River	10.6	11.6		10.8
	Newlan Creek	12.4	9.9	10.1	-
usselshell	Bair	7.0	7.1		6.7
	Martinsdale	23.1	14.3		16.6
	Deadman's Basin	72.2			57.0
un	Gibson	99.0	84.3	77.3	92.8
	Willow Creek	32.2	30.4	22.8	28.1
	Pishkun	32.0	30.0	31.7	28.8
arias	Lower Two Medicine	11.9		12.4	-
	Four Horns	19.2		11.6	_
	Swift	30.0	27.5	11.1	27.7
	Lake Frances	111.9	104.4	75.2	94.6
H1k	Elwell (Tiber)	1,347.0	666.8	598.7	
	Beaver Creek	3.5	3.3		691.1
	Fresno	127.2	127.5	3.3	101 1
	Nelson	66.8		118.5	101.1
	HEISON	00.0	54.7	40.6	46.3
		SON BAY			
t. Mary's	Lake Sherburne	66.2	30.6	48.7	29.7
	YEL	LOWSTONE			
tlllwater	Mystic Lake	21.0	6.1	F .	
lark's Fork	Cooney	27.4		5.6	6.0
nngue	Tongue River		19.5		17.3
	Tongge Kiver	68.0	38.5	66.7	40.8
shorn	Blghorn Lake	1,356.0	982.7	1,098.0	810.3

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE







# FIRST CLASS MAIL

#### STREAMFLOW FORECASTS

Most streams in the Columbia and Missouri River drainages reached their peak snowmelt runoff in late May.

Snowplliow records indicate the Gallatin River and most Yellowstone River tributaries should reach their snowmelt peak between the 10th and 20th of June. If June precipitation is below average, streamflow volumes will be a little less than was forecasted on May 1.

#### MOUNTAIN SNOWPACK

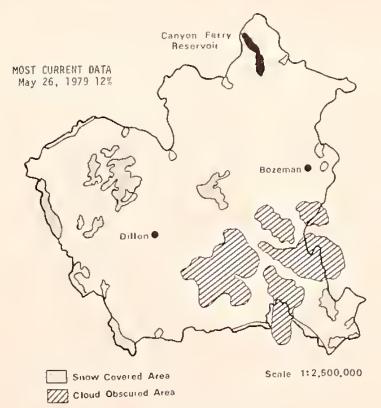
Mountain precipitation for May was below average in most areas.

The high elevations have a below average snowpack for June 1 with snowmelt progressing at a near normal rate.

#### SATELLITE SNOW COVER

The snow cover determined by computer from satellite imagery is used to evaluate areas where snow is still present. By computing the area-elevation relationship for the basin above Canyon Ferry Reservoir, the snow cover can be used to estimate the average snowline elevation within the drainage. In this report the average snowline elevation has been estimated

for each snow cover observation. Care must be taken when attempting to determine the snowline elevation for a specific area, since there are differences in exposure, snowfall, and temperature from one mountain range to another. However, the average snowline elevation does represent the progress of snowmelt over the basin in general.



# MISSOURI RIVER BASIN Above Canyon Feery Dam

DATA PROVIDED BY NOAA/NESS

DATE	PERCENT SNOW COVER	AVERACE SNOWLINE ELEVATION IN FEET	DATE	PERCENT SNOW COVER	AVERAGE SNOWLINE ELEVATION IN FEET
Novembre 1 1070	9	8600	March 2, 1979	100	3800
November 1, 1978	98	4100	March 8, 1979	95	4400
November 14, 1978	100	3800	March 11, 1979	85	5100
December 6, 1978	100	3800	March 14, 1979	76	5500
December 10, 1978		3800	March 20, 1979	82	5200
December 19, 1978	100	3800	March 24, 1979	76	5500
January 1, 1979	100	3800	April 5, 1979	64	6100
January 8, 1979	100	3800	April 8, 1979	68	5900
January 14, 1979	100	3800	April 28, 1979	52	6600
January 23, 1979	100		May 3, 1979	48	6700
January 29, 1979	100	3800	May 19, 1979	24	7700
February 4, 1979	100	3800	May 26, 1979	12E	8350
February 20, 1979	98	4100	may 20, 1979	146	0320
February 27, 1979	96	4300			

## SNOW SURVEY DATA

SHOW		Dele	THIS YEAR	We'll Content		ECORO ent [inchest
NAME	EHVATOR	of Suring	Thirt	(Indirit	Collifeh	A+0=0(0
ORCH FALLS	7350 6900	e/31 5/27	23 67	6.5 34.1	11.0 37.8	10.2
HARDER PASS HARD ENGLE PEAK	5700	5/25	57	29.5	43.4	46.6
PAMELELD MOUNTAIN PILLOW	560n 560n	5/31 5/31	0 \$P	. 4	1.7	7.6
PEAGLE SPPINGS	6020 8850	6/01	0 U *	.0 1.0	- 0	-
BEAGLE SPRINGS PILLOW HIG COLLEE	885n 5 <b>1</b> 00	6/01 5/31	SP 0	•5 •8	• 0	5
PIN CRESK MLACK LEAR	6750 7950	6/01	85 0*	45.3 23.0	58.2 36.0	44.3 36.0
FLACK PEAR PILLOW PLACK FIDE	759n 7100	6/01 5/31	SP 2	22.8	33.5	30.1
PLACK PINE PILLOW	7100	5/31	SP	. 5	10.1	4.4
arbout hick birroh	7600 7600	6/01	0 * \$P	.n .0	1.6	Ţ.
PLUE LAKE ROULBER MOUNTAIN	5906 7 <b>9</b> 50	5/27 6/01	23	10.8 13.0	11.6	14.7
HOW CARYON PILLOW	7950 6670	6/01 6/01	SP 0*	13.5 .n	-	-
PRIDGER BOLL	6670 7250	6/01 6/01	SP 42	.0 19.2	26.8	23.6
ERIOGER HOLL PILLOW ERISTON CREEK	7250 3900	6/01 5/31	SP 0	15.2	25.7	19,8
CALVERT CREEK CALVERT CREEK PILLOW	6450 5450	6/01	0 * 92	. 0	• 0	-
CEDAR PROVE	4100	5/29	0	.0	• ử • 0	• 0
CHICKEN CREEK PILLOW	7850	6/01	SP	16.4	19.6	18.6
COMPINATION PILLOW	5600 5600	5/30	o SP	.0	• 0 • 0	• 0
COPRES BOTTOM	8150 5200	5/30 6/01	37 0*	15.4	22.1	13.3
CUPPER SOTTOM PILLOW COPPER CAMP	520n 6950	5/01 6/01	SP 0*	.n 1.9	2.4	• 0
COYSTAL LAFE	6100	6/01	0 *	• 0	-	-
DAVIS CREEK  DEADWAN CREEK	5400 6450	5/29 F/R1	0 *	.0	.0	4.1
DESERT MOUNTAIN	5600	6/01 5/30	SP 2	• i) • 9	- 0	1.4
DISCOVERY MASIA	8100 7050	5/31 5/30	5.8 0	21.2	30.2	25.5
DINIOE DIFFOR	7800 7800	6/01 6/01	0 * SP	• (1) • (1)	2.2	1.0
DIX HILL EBURY CHEEL	6400 4350	6/61	0	• 0	-	. 9
ENTRY CREEK PILLOW	4350 5500	K/30	f u Sr	.ñ 9.7	-	-
Eldned Cheuk	9100	£/29	72	23.2	14.5	40.1
FLATION MOUNTAIN PILLON	9100 6300	E/89	5.P	32.9	41.2 42.6	36.0
FREHMER MELDOWS	6480 6480	5/29	0 SP	•1	• 0	3.1
BARVER CREEK PILLOW	4250 4250	5/29 5/29	0 \$P	• () • ()	• 0	• 1 • 0
GPOVE CREEK PILLOW	4300 4300	5/29	0 SF	.n .o	.0	2.1
GHTSIGHT LAKE	6300 5030	5/2 <b>7</b> 6/01	55	27.8	37.3	35.4
HANKINS EAKE	5030	F/01	SP	• 0	-	-
HEART LAKE THAIL	6450 4800	5/31	18	7,6	25.0	24.1
HERRIG JUNCTION	5775 4850	6/01 5/29	0 5.9	13.6	19.4	13.6
HIGHWOOD DIVIDE FIRHDOM STATION	5650 4600	5/31 5/31	0	• 0 • ก	. U . C	•5 •0
HOOD MEADON	6600 6000	5/31 5/31	6 <b>5</b> 0	1.2 28.8	39.2	3.6 39.0
HOODOG BASIN PILLOW	600a	9731	SP	22.1	-	33.0
KINGS HILL	7500	5/31 5/30	22	7.8	36.5	36.5 11.4
TENTI PIDGE	74no 0100	6/01	0 *	• 0	5.5	-
LEAMI PIDGE PILLOW LICK CREEK	8100 6860	6/01 5/31	\$P 3	.0 .6	6.8	2.0
LIST LISELA PILLON LOLO PASS PILLON	6860 5230	5731 5731	SP SP	• 3	• 0	.7
1 2000001 (In V	5250 4800	5/30 5/31	7	3.7	14.A	15.8
midly GLACICS	4960	6/01	Π 4ε	• Ü	- 0	- A
MAYDARD CREEK	4960 6210	6701 6701	SP 0	• G • 0	4.1	5.1
POUNT LOCKLART	6210 6400	F/01	SP 0 *	4.0 13.0	3.6	4.6
WOISY BASI	6400 6040	6/01 5/30	SP 84	13.5 41.9	51.4	13.0
NOISY HASI PILLOW NORTH FORK JOCKS	5040 6330	5/30 5/31	SP 48	33.7 25.3	45.6	31.3
NOMITHEAST ENTRANCE PILL.	7400 7400	E/30	1	• 2	. 4	29.5
PETERSON MI ADOWS	7150	5/30 (/ni	\$P 10	4.6	.n 15.6	.n 12.2
PETERSON REASONS PILLON	7200 7200	SZ31 5Z31	8 42	• 8 • 4	5.6 7.5	1.8
PICKERAL CHEEK PILLOW	6650 6650	€/01 €/01	0 * 9	• ก • ก	-	-
haterase Culter biffler	5100 5100	5/29	3 SP	1.6	9 <b>.1</b> 10.3	11.9
1. 34 J-103 46 - 14 E - X	6500 6500	6/01	n *	• 0	• 0	-
POCKER I-ENI	60n0 6000	5/31	-0	0.	7.8	5.4
POCKER PER PILLOR ROCKY FOY	8000	e/39	27 SP	9.0 13.6	15.8 20.1	10.5
PROBLE YOU ALFUNK	4700 4700	5/30 5/30	n SP	0.0	• D	.0
SAPPLE MOUSTAIN PILEGE	7940 7940	6/71	0 ★ S⊭	14.n 13.0	29•8 29•6	22.4
SHOVER FALLS PILLOW	8100 8100	7/31	65 SP	25.2	34.2	89.8
SILVER RUN FILLOW	5630 5630	1 201	0	• 0	• 6	26.2
SRAEKACO SEMPII SRAEKACO SEMPII PILLIS	7261)	1/30	SP 27	12.4	23.6	16.6
SPERIE (RE 7 , SPRINGS)	726) 700)	5/30	SP n	17.1	25.9	1.2
LLINE FORK	មកបច្ ម <b>ា</b> វបាក	6701 6701	0 ± SP	17.5	24.5	18.8 18.2
The second secon						

SNOW			THIS YEAR		PAST R	PAST RECORD	
DRAINAGE BASIN MOTOR SNOW COURSE		Dete	544= 0 mm	Well + Content 1	Refer Conte	mt (inchest	
NAME	Elevation	of Sursaa	(Inches)	{Inchart	Lettles	Atende	
STAHL PEAK	<b>5</b> 050	1. (1) (3				2.0	
STAR LAKE E	505n 9650	5/29	64	40.0	44.8	35.	
STHYKER BASIN	6180	5/29	41	10.5	56.9 29.9	51.	
STUART MOULTAIN	7400	5/31	38	19.2		20	
TEREE CREEY	8000	6/01	30 fi *		30.0	20.	
TEPEE CREEK PILLON	8000	6701	SP ×	7.0 3.0	14.0	11.	
TRIDKUS EATE	6100	5/27	55	29.7	9.4	5.	
TV MOUNTAIN	6800	5/31	21	9.3	36.5	27.	
MELVEMILE CREEK	5600	5/01	0 *		13.9	11.	
THELVEMILE CREEK PILLOW	5606		SP *	•	• 0	2.	
IN CREEKS	3580	6/01		• n	. 0	•	
MIN LAKES	6510	5/27	0	0.0		7.0	
MIN LAKES PILLOW	6400	6/01	0 *		40.0	30.	
JPPER HOLLAND LAKE	6200	6/01	SP	27.0	38.6	28.	
	5600	5/27	51	23.8	28.8	24.	
MALDRON PILLOW	5600	6/01	0 *		•	•	
VARM SPRINGS	8256	6/01	SP	. 1	01.0	•	
VARM SPRINGS PILLOW	8250	6/94	25	8.6	23.0	-	
		6/04	SP	11.9	32.8	89.	
FASEL DIVIDE	5450	5/29	22	10.9	25.7	20.	
JEST YELLOWSTONE PILLOW	6700	6/01	\$P	• 0	.0		
HISKEY CREEK	6800	F/01	0 *		S • 5	2.	
HISKEY CPEEK PILLON	6800	4/01	SP	. 0	- 1,	1.	
WHITE MILL	£700	5/30	58	25.4	38.4	27.	
WHITE MILE PIELOW	8700	5/30	SP	17.5	26.5	21.	

#### ADDITIONS AND CORRECTIONS TO PREVIOUSLY PUBLISHED DATA

Many of the snow survey measurements published in the Water Supply Outlook have been telephoned into the Snow Survey Office. Sometimes the original notes are not received in time to check additions and subtractions. Also, some surveys are made too late for the information to be

#### published.

This table shows the additional and corrected data for 1979 snow surveys. The underlined value is the corrected data. Data not underlined was not previously published.

SHOW	THIS YEAR			PAST RECORD		
DRAINAGE BASIN Indio: SNOW COURSE	Elevation	Oets. of Survey	Sna = Oroth  (Achii)	Weter Content Hindheid	Welei Cont	Average
N No.	CINZON	<u> </u>	I		Lentre	vicate.
JANUARY 1						
Basin Creek Fourth of July Friduy Hill Newton Mountain <sup>1</sup> Ten Nile Lower Waldron Waldron Pillow Whiskey Creek Pillow	7180 3450 4620 5600 6600 5600 5600 6800	12/27 1/02 1/02 1/02 12/29 1/06 1/06	18 21 25 32 28 26 SP SP	3.2 4.7 6.6 8.9 5.6 6.6 5.9 7.5	2.9 - - 5.2 - 7.5 9.9	2.8
FEBRUARY 1						
Hebgen Dam Twenty-One Mile Warm Springs Pillow	6550 7150 8250	1/28 1/28 2/05	30 38 <u>SP</u>	$\begin{array}{r} 7.1 \\ \underline{9.6} \\ 13.1 \end{array}$	13.7 15.8 20.0	8.9 13.6 -
MARCH 1						
Bald Eagle Peak Banfield Mountain Briston Creek Cabin Creek Cedar Grove Davls Creek Elk Horn Springs Carver Creek Hawkins Lake Highwood Station Holbrook Keeler Creek Lost Soul Poorman Creek Stemple Pass Ten Mile Niddle Twenty-One Mile West Rosebud West Yellowstone	5700 5600 3900 5200 4100 5400 7800 4250 6450 4600 4530 3300 4800 5100 6600 6800 7150 7500 6700	3/09 3/08 3/08 2/27 3/09 3/09 3/13 3/08 3/09 3/08 3/09 2/28 2/27 2/25 3/09 2/25	133 53 30 32 40 46 30 25 58 19 32 37 39 83 46 41 55 35 43	48.6 18.0 9.5 7.9 14.5 15.3 6.8 9.0 19.1 7.1 9.4 13.1 12.9 33.1 11.2 14.4 12.1 11.4	48.3 18.7 11.2 9.2 13.0 22.5 13.3 12.6 27.8 7.4 12.0 11.4 15.7 31.4 10.5 11.4 22.2 7.3 15.1	56.1 22.9 12.6 6.6 12.0 22.9 8.5 11.4 28.6 4.4 9.6 14.6 15.6 32.4 9.6 10.3 16.6 9.8 11.1
APRIL 1						
Beaver Lake Flattop Mountain Pillow Freight Creek Frohner Meadows Hebgen Dam Nez Perce Creek Pipestone Pass Stuart Mill Ten Mile Upper TV Mountain Tenty-One Mile Twin Creeks West Yellowstone	5900 6300 6000 6480 6550 6500 7200 6500 8000 6800 7150 3580 6700	4/08 4/01 4/08 3/30 3/31 3/30 4/04 3/31 3/29 4/06 3/31 4/08 3/31	68 SP 50 36 38 27 32 25 52 64 54 33 42	25.4 37.6 18.2 10.8 12.8 7.2 7.6 8.1 15.0 20.6 18.6 12.7 14.2	21.5 35.3 15.0 8.4 17.2 3.4 4.0 .0 15.8 20.9 20.5 9.5	25.8 51.6 17.2 9.2 12.5 7.7 6.2 7.9 15.4 20.7 19.6 12.1
May 15						
Banfield Mountain	5600	5/17	22	10.6	12.4	16.9

Average based on 1963-77 period. A - Aerial observation; water content estimated. SP - Snow Pillow observations; water content only. \* Estimated from SNOTEL.

#### COLUMBIA RIVER DRAINAGE

All snow courses have shown considerable melt since May 15. Cool weather mean the end of May retarded melting for about a week. Most high elevation snow courses have less than average amounts of snow for June 1. Precipitation during May was generally below average in most mountain areas. Most of it fell near the first and again (-) the end of the month.

Nearly all major rivers relibed their snowmelt peaks on the 27th or 28th of May. Peak flows were generally near or a little less than average. Except for the Blackfoot River near Bonner, all peak flows were within the ranges forcasted on May 1. The Blackfoot River peaked about 10 percent higher than expected. If June precipitation is below average, the seasonal runoff will be a little less than was forecast on May 1.

#### YELLOWSTONE RIVER DRAINAGE

Precipitation in the mountain areas was generally below average in May even though a considerable amount of snow fell near the end of the month. There was significant snowmelt during May, and at the present time most high elevation snow courses show less than average amounts of water stored in the snowpack.

Streamflow increased throughout the month until near the end of May when cold weather moved into the area. Most rivers in the Yellowstone River drainnge are expected to reach their snow-melt peaks the second of third week in June. If precipitation in June continues to be helow average, the runoff for the season will be slightly lower than was forecasted on May 1.



Most streams and rivers reached their snowmelt peak during the last few days in May. The Gallatin River is the only major stream that has not reached its snowmelt peak yet and it is expected to do so just before the

MISSOURI RIVER DRAINAGE

Mountain precipitation was gener-

ally below average in May. Most pre-

elpitation came from storms early in

month. Most of the precipitation near

the end of May occurred in the south-

snow. Some snowfall was also observed

Water stored in the high elevation

ern portion of the state and came as

mountain snowpack is generally below overage for June 1 and reflects mult

Tering May and helow average

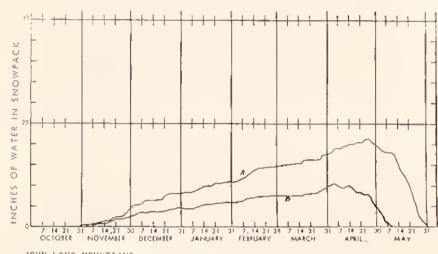
May and again near the end of the

nt the lower elevations.

recipitation.

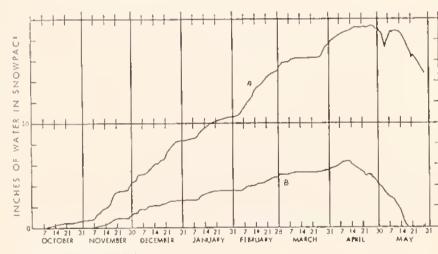
If precipitation during June continues to be below average, the seasonal runoff will be a little less than was forecasted on May 1.

#### - SNOW PILLOW RECORDS -



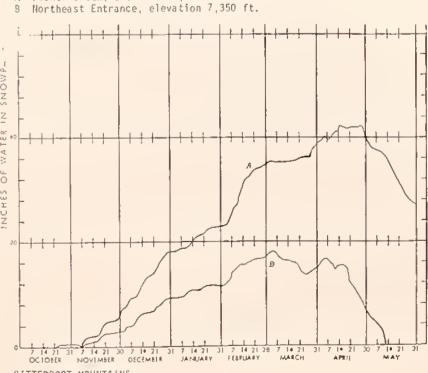
JOHN LONG MOUNTAINS

A Black Pine, elevation 7,100 ft. E Combination, elevation 5,600 ft.



BEARTOOTH HOUNTAINS

A Fisher Creek, elevation 9,100 ft.



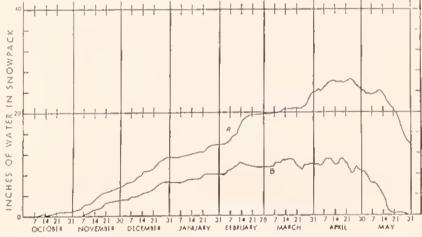
SITTERROOT MOUNTAINS

Twin Lakes, elevation 6,400 ft. B Twelvemile Creek, elevation 5,600 ft.

# O 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 38 7 14 21 3 OCIOBIR NOVIMBIR DECEMBER JAMUARY ILBAUARY MARCH

BEARTOOTH MOUNTAINS

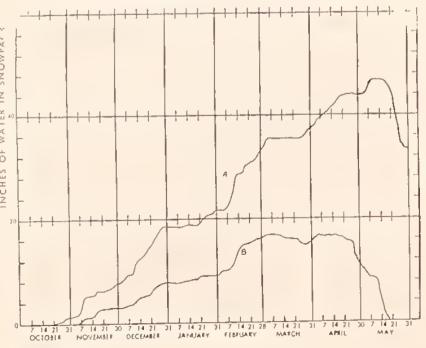
A Cole Creek, elevation 7.850 ft. B Silver Run, elevation 6,630 ft.



LEWIS MOUNTAINS

A Mount Lockhart, elevation 6,400 ft.

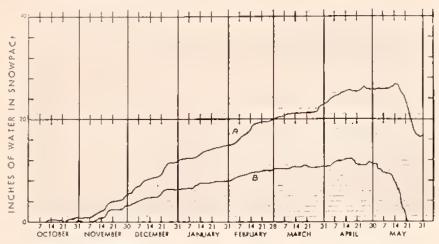
8 Waldron, elevation 5,600 ft.



GLACIER PARK

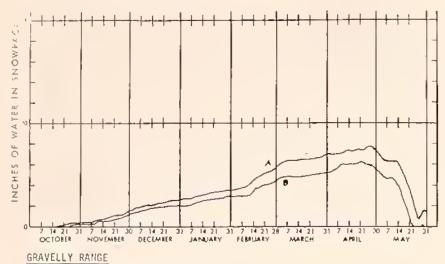
- A Flattop Mountain, elevation 6,300 ft. 8 Many Glacier, elevation 4,900 ft.

#### SNOW PILLOW CHARTS CONTINUED

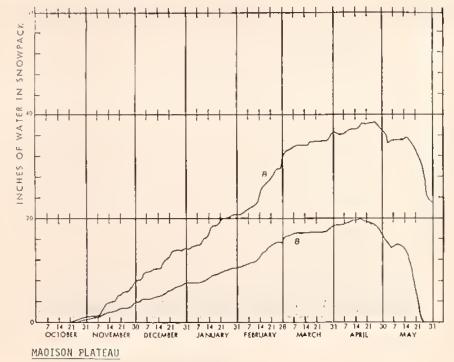


#### LITTLE BELT MOUNTAINS

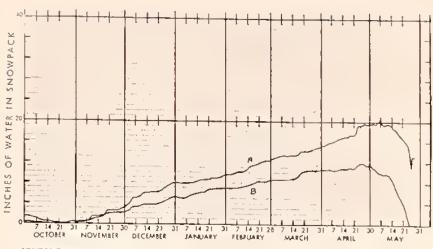
- Spur Park, elevation 8,100 ft.
- Deadman Creek, elevation 6,450 ft. 8



- Tepee Creek, elevation 8,000 ft.
- Oivide, elevation 7,800 ft.

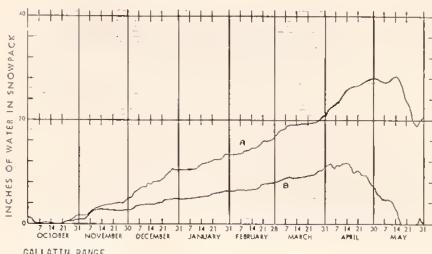


- Black Bear, elevation 7,950 ft.
- Whiskey Creek, elevation 6,800 ft.



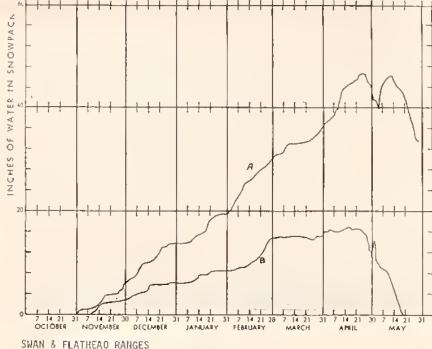
#### CONTINENTAL DIVIDE

- A Rocker Peak, elevation 8,000 ft.
- B Frohner Meadow, elevation 6,480 ft.



#### GALLATIN RANGE

- Shower Falls, elevation 8,100 ft. Lick Creek, elevation 6,860 ft.



#### SWAN & FLATHEAD RANGES

- Noisy Basin, elevation 6,150 ft.
- Emery Creek, elevation 4,350 ft.

#### AGENCIES AND ORGANIZATIONS COOPERATING IN MONTANA SNOW SURVEYS

#### GOVERNMENT AGENCIES

Canada

Water Survey of Canada, Calgary, Department of the Environment Water Resources Service, Department of Lands, Forests and Water Resources, British Columbia

Alberta Environment, Edmonton, Alberta

Federal

Department of the Army - Corps of Engineers

Department of Agriculture - Forest Service - Soil Conservation Service

Department of Commerce - NOAA - National Weather Service

Department of Interior - Bonneville Power Administration - Bureau of Indian Affairs

- Bureau of Reclamation

- Fish and Wildlife Service - Geological Survey

~ National Park Service

#### STATE AGENCIES

Montana Gonservation Districts

Montana Department of Fish and Game

Montana Department of Natural Resources and Conservation Montana State University - Agricultural Experiment Station University of Montana - School of Forestry

DNRC - State Forester

#### PRIVATE ORGANIZATIONS AND INDIVIDUALS

Butte Water Company Montana Power Company The Anaconda Company Big Sky of Montana Jack & Scott Graveley Arthur Christensen

Jack Fenton

